## Kindly amend claims 1-4, 10-20 and 24-31 as follows:

- 1. (Amended) A semiconductor device comprising: a plurality of thin film resistors connected in series to form a bleeder resistance circuit, each of the thin film resistors being made of a polysilicon film doped with B or BF<sub>2</sub> P-type impurities and having two end portions each having a high impurity concentration region; a first insulating film overlying the thin film resistors; a plurality of first conductors connected to the ends of the thin film resistors for connecting the thin film resistors in series; and a plurality of second conductors each connected to a respective one of the first conductors and overlying a respective one of the thin film resistors through the first insulating film.
- 2. (Amended) A semiconductor device according to claim
  1; further comprising a second insulating film overlying the
  thin film resistors; wherein the second conductors are formed
  on the second insulating film in a position over the thin film
  resistors so that the thin film resistors are at the same
  potential as the second conductors.
- 3. (Amended) A semiconductor device according to claim1; wherein each of the first conductors is at the samepotential as a respective one of the thin film resistors.



- 4. (Amended) A semiconductor device according to claim
  2; wherein each of the second conductors is at the same
  potential as a respective one of the thin film resistors.
- 10. (Amended) A semiconductor device according to claim
  1; wherein the film thickness of each of the thin film
  resistors is several tens to 2000 angstroms.
- 11. (Amended) A semiconductor device according to claim
  1; wherein the film thickness of each of the thin film
  resistors is several tens to 1000 angstroms.
- 12. (Amended) A semiconductor device according to claim
  1; wherein the first conductors are composed of well regions
  formed in a silicon substrate.
- 13. (Amended) A semiconductor device to claim 1; wherein the first conductors are made of polysilicon.
- 14. (Amended) A semiconductor device according to claim
  1; wherein the second conductors are made of polysilicon.
- 15. (Amended) A semiconductor device according to claim
  1; wherein the second conductors are made of aluminum.
- 16. (Amended) A semiconductor device according to claim
  1; wherein the second conductors are made from a lamination
  film of a barrier metal and a silicide film.



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- 17. (Amended) A semiconductor device according to claim 1; wherein the first conductors are made of a material forming a gate electrode of a MOS transistor formed on the same chip as the thin film transistors.
- 18. (Amended) A semiconductor device according to claim 1; wherein potentials of each of the plurality of thin film resistors and the first conductors connected to them are fixed by a metal wiring material through a common contact hole.
- 19. (Amended) A semiconductor device according to claim 1; further comprising a MOS transistor having a gate electrode; and wherein a film thickness of each of the thin film resistors is formed thinner than a film thickness of the gate electrode of the MOS transistor.
- 20. (Amended) A semiconductor device according to claim 19; wherein the film thickness of the thin film resistors is several tens to 1000 angstroms.
- 24. (Amended) A semiconductor device according to claim 19; wherein a temperature dependency of the resistance value of the thin film resistors is -4000 ppm/°C or lower.
- 25. (Amended) A semiconductor device according to claim 1; wherein each of the thin film resistors has a low resistance region having the high impurity concentration for



connecting with metal wiring, and a high resistance region; and wherein a film thickness of the high resistance region is smaller than that of the low resistance region.

- 26. (Amended) A semiconductor device according to claim 25; wherein the film thickness of the high resistance region is several tens to 1000 angstroms and the film thickness of the low resistance region is 2000 to 10000 angstroms.
- 27. (Amended) A semiconductor device according to claim 25; wherein the low resistance region and the high resistance region of the thin film resistors are formed on a common flat surface.
- 28. (Amended) A semiconductor device according to claim 25; wherein upper surfaces of the low resistance region and the high resistance region of the thin film resistors form the same flat surface.
- 29. (Amended) A semiconductor device according to claim
  2; wherein the first insulating film and the second insulating
  film are made of a silicon oxide films.
- 30. (Amended) A semiconductor device according to claim 2; wherein one or both of the first insulating film and the second insulating film are made of a multilayer film containing a silicon nitride film.



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31. (Amended) A semiconductor device according to claim
1; wherein a resistance value of the entire bleeder resistance
circuit using the plurality of thin film resistors is 1 megaohm to 100 mega-ohms.

Kindly add the following new claims 34-36:

- 34. A semiconductor device comprising:
- a plurality of first conductors;
- a first insulating film overlying the first conductors;
- a plurality of thin film resistors overlying the first insulating film, each of the thin film resistors being made of a polysilicon film doped with B or BF<sub>2</sub> P-type impurities and overlying a respective one of the first conductors;

first conductors for electrically connecting the thin film resistors in series; and

first connecting means for electrically connecting each of the first conductors to the end of a respective one of the thin film resistors so that each of the first conductors is at the same potential as the respective one of the thin film resistors.

35. A semiconductor device according to claim 34; wherein each of the thin film resistors has two ends, the thin film resistors being spaced from one another along a line and the two ends of each of the resistors being spaced apart along the line.



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36. A semiconductor device according to claim 35; further comprising a s cond insulating film overlying the plurality of thin film resistors; a plurality of second conductors formed on the second insulating film and each overlying a respective one of the thin film resistors; and second connecting means conductively connecting one end of each the thin film resistors to a respective one of the second conductors so that each of the thin film resistors is at the same potential as the respective one of the second conductors.

## IN THE ABSTRACT:

Delete the abstract now of record and insert therefor the new abstract submitted herewith on a separate sheet.

## ADDITIONAL FEES:

No additional fees are believed required; however, should it be determined that a fee is due, authorization is hereby given to charge any such fee to our Deposit Account No. 01-0268.

## REMARKS

In the last Office Action, the Examiner withdrew claims 32-33 from further consideration as being directed to a non-elected invention. Claims 1-7, 10-15, 17-21 and 24-31 were rejected under 35 U.S.C. §103(a) as being unpatentable over